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Explanation of How the BRS/EBS Location Data was Obtained and Mapped

1. From the FCC's website at FCC > WTB > ULS > Databases, the BRS & EBS licenses database were downloaded on June 5, 2005. The database file name is l_mdsitfs.zip.
2. The l_mdsitfs.zip file was "unzipped" and the individual data files were obtained, including the LO.dat and HD.dat files.
3. The LO.dat file contains the location information, licensee Call Sign, Location Class Code, coordinates, etc.
4. The HD.dat file contains the Application/License Header information, licensee Call Sign, License Status, Radio Service, etc.
5. The LO.dat and HD.dat files were imported into an Access database.
6. A query was performed on the database to extract the location data based on these two fields: Location Class Code and License Status information. The Location Class Code field has four different entry possibilities: T for Transmit Location; C for Center Point; R for Receiver Location; and, P for Passive Repeater Location. The License Status field has four different entry possibilities: T for Terminated; C for Canceled; E for Expired; and, A for Active.
7. The map only shows the Active Transmit and Active Center Point MMDS/ITFS locations, i.e., the Location Class Code as T (Transmit Location) or C (Center Point), and the License Status as A (Active). The map does not show the inactive license transmitters.

Explanation of How Rural Counties were Mapped

1. In the U.S. Census Bureau website at 2000 U.S. Gazetteer, download the Census 2000 gazetteer of counties for the 50 states, the District of Columbia and Puerto Rico. The data file name is Counties.zip.
2. The Counties.zip file was "unzipped" and the file county2k.txt was obtained.
3. The county2k.txt file has fields of County Name, Total Population (2000), Land Area (square miles), etc.
4. Calculate the population density of each county by dividing the Total Population (2000) by the Land Area (square miles).
5. The counties with the population density of less than 100 pops/square miles are rural counties.

The MMDS/ITFS locations over BTA/MEA and rural counties maps were prepared by Judy Deng, technical consultant at Bennet & Bennet, PLLC.

About Judy Deng

Ms. Deng graduated from the State University of New York at Maritime College in 1996 with the degree of Bachelor of Science in Electrical Engineering. Ms. Deng graduated from Virginia Polytechnic Institute and State University in 2000 with the degree of Master of Science in Electrical Engineering with concentrations in Communications.

Ms. Deng provides technical support in the design, development, implementation, testing and optimization of broadband, PCS and cellular communication systems, as well as point-to-point microwave systems. In addition, Ms. Deng provides support for the implementation of TDMA and GSM technologies within the Cellular (800 MHz) and PCS (1900 MHz) spectrum, and has design and operational experience in the BRS/EBS bands. Ms Deng also provides support in frequency planning, interference analysis and system integration. Ms. Deng performs FAA analysis and document preparation as well as analysis and document preparation of compliancy filings submitted to the FCC on behalf of cellular and PCS clients. Ms. Deng also has experience with co-deployment and relocations issues of current TV/digital TV licensees and clients that wish to deploy voice and broadband data services in the 700 MHz spectrum.